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DCS & Labelling Worldwide

Compact & Lightweight, High Performance **MB200**



Quick Guide



DCS & Labelling Worldwide

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Warning : This equipment complies with the requirements in Part 15 of FCC rules for a Class A computing device. Operation of this equipment in a residential area may cause unacceptable interference to radio and TV reception requiring the operator to take whatever steps necessary to correct the interference.

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Options**Battery Pack (one included)**

To use as back-up.

Battery Charger

To recharge battery pack

AC Adapter for Printer

Use the adapter to supply power from a household electrical outlet (AC100-240V). Connect the DC output jack of the adapter to the printer.

*Do not use thinner, benzene, or kerosene.

Shock Absorbing / Splash-proof Case (with shoulder belt)

Makes carrying the printer easier.

RS232C Cable

Connects the printer to the computers and handy terminals.

Interface Protector

Protects the RS232C plug from shock and pressure when carrying.

PRINTER OVERVIEW

The SATO MB200 printer is compact and lightweight, combined with high performances. Not only does this printer print barcodes clearly, it can also enlarge and print various types of fonts and Kanji characters in a free layout.

MB200 is also excellent in durability, as it has been designed with the premises of printing barcodes. Special considerations have also been taken so that the printer can be easily maintained.

As a portable printer, MB200 can easily print and dispense labels to enable the application of labels on-site.

This Quick Guide is an extract of the more common functions which you need to start the printer running. For more advanced functions, please refer to the Operator Manual.

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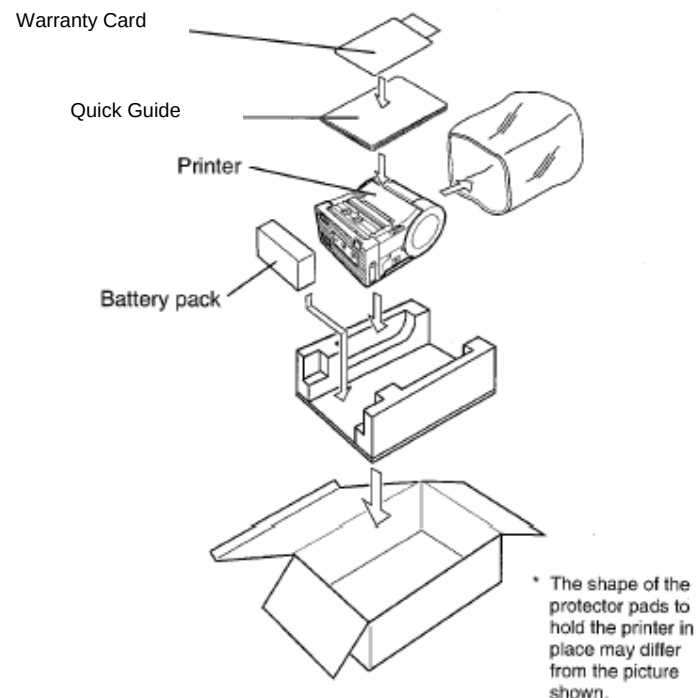
Item	Details
Barcode	JAN8/13, UPC-E/UPC-A, NW-7, CODE39, CODE93., CODE128, INTERLEAVE 2 of 5
Two Dimension Code	PDF 417, QR code
Function Key	Print key Feed Key
Indicator	1 LED indicator (with Green, Red, Orange lighting)
Noise Gauge	Noise radiation: VCCI-A Static withstanding pressure: Level 2
Protection Function	Suspension of action upon detection of low level batteries
Impermeability	Splash proof II (JIS) compliant (with the optional Shock absorbing – splash proof case) * Excludes when the printer is cabled
Environmental Conditions (including battery)	Operation temperature: 5 – 40°C Humidity: 25 – 80% (without condensation) Storage Temperature: -5 – 45°C Humidity: 25 – 80% (without condensation) excluding the label condition
Option	Weak Radio Unit, Battery Charger, AC Adapter (AC100V), Interface Protector, Shock Absorbing / Splash Proof Case (with shoulder straps), RS232C Cable, Battery Pack, Core-less Kit and Wireless Kit

MB200 Specifications

Item	Details
Method	Thermal
Head Density	8 dots/mm
Maximum Printing Size	Width 48mm x 160mm
Printing Speed	Max. 62.5mm/sec (may vary from environment and printing rate)
Size and Weight	Printer: W94mm x D120mm x H64mm (excluding the belt clip) Weight: under 430g (with battery and without the protector)
Power (Battery)	Packet type (Lithium ion battery); 1500mAh (DC7.2V); Able to print 2 rolls of thermal label (26m) with fully charged battery in the Continuous mode. (Printing rate under 30%)
Paper Thickness	0.08mm – 0.18mm (always use specified labels)
Label Shape	Rolled paper, maximum outer diameter: 58mm
Label Size	Width: 25.4 – 55mm (28.4 – 58mm) Pitch: 13 – 160mm (16 – 163mm)
Printing Mode	Continuous and Dispense
Self Diagnosing Function	Head Check / Battery Check / Paper End Head Open / Test Printing
Power Save Function	In Sleep mode after 5 seconds without any operation, and Auto Power Off mode after 5 minutes.
Interface	High density special connector Weak radio unit (option) IrDA (IrDA Standard Ver. 1.2 compliant. Transmittal Distance: Max. 15 – 20cm)
Label Sensor	Opaque Projector Sensor
Font Magnification	x1 – 6
Character Rotation	0°, 90°, 180°, 270°
Font	SATO standard font: x21, x22, x23, Kanji 16 x 16, 22 x 22, 24 x 24 Kaku Gothic (JIS First/Second standard)

Installation

Remove the MB200 from its packing container. Check to make sure you have the following accessory items:



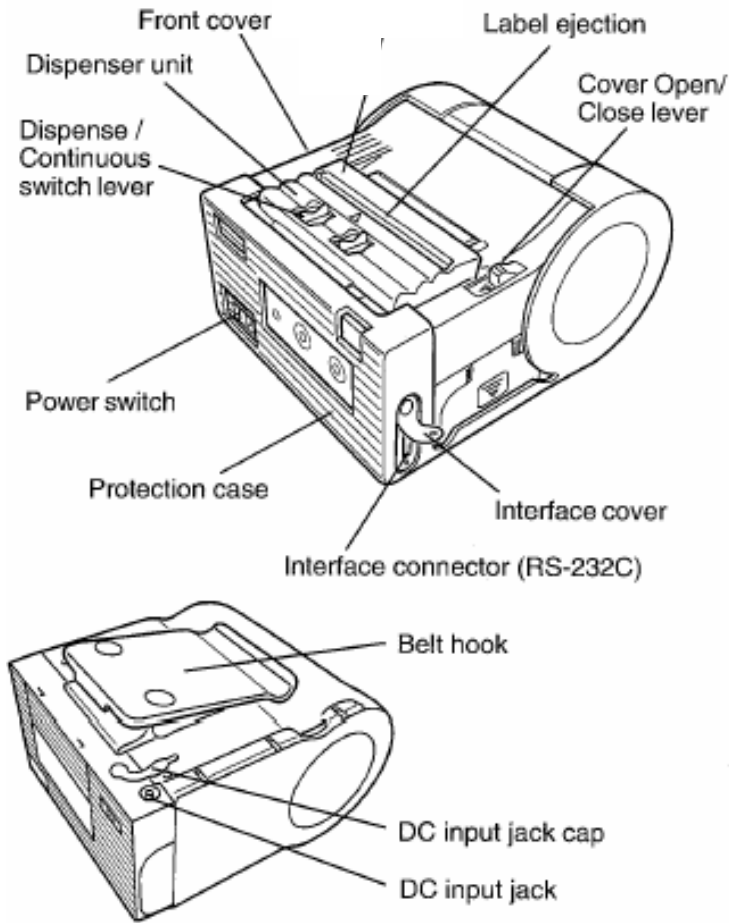
Careful considerations must be given when selecting location of the printer, especially to environmental considerations. To obtain optimum results from MB200, always try to avoid operation locations influenced by:

- Direct or bright sunlight, as this will make the label sensor less responsive and may cause the label to be sensed incorrectly.
- Locations which have extreme temperature, as this can create electrical problems on the circuits in the printer.
- The installed location of the printer should be ideally be in areas free from dust, humidity and sudden vibrations.

Consumables

Always use SATO labels in MB200 printer. The use of incorrect material may cause malfunctions of the printer and void the printer warranty.

Components



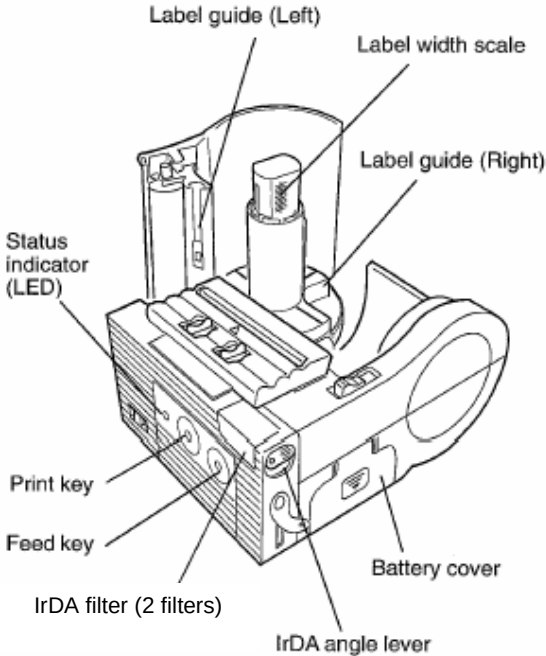
Status (LED)	Mode	Details	Cause	Remedy
Green (blinking)	On-Line (printing/receiving data)	Buffer near full	Approaching the buffer quota	Pause the data transmission and wait till the buffer is empty before trying again
Green/Orange (blinking)	On-Line	Head overheating protection function	Not an error. The overheating protection function activates when the head temperature rises above 55°C.	The function will deactivate when the head temperature decreases to 50°C.

*Consult your local dealer or Customer Service Centre.

Troubleshooting

The status of the printer is shown on the status indicator. To solve the problems, follow the instructions in the table.

Status (LED)	Mode	Details	Cause	Remedy
Orange	All modes	Low battery	Battery is not full	Recharge the battery
Red/Orange (blinking)	On-Line	Buffer over	1. Received data over the buffer quota. 2. The protocol between the printer and host does not match.	1. Adjust the data amount at the host side so that it won't exceed the buffering quota. 2. Match the protocol.
Red	After turning on the power	1. Program error 2. FLASH ROM error	FLASH ROM reading/writing error	1. Replace the FLASH ROM* 2. Download the firmware again*
Orange (blinking)	On-Line	Head Error	The print head is damaged	Replace the head*
Red (blinking)	On-Line	Open cover	1. Cover is not locked 2. Cover micro switch is not working properly	1. Lock the cover 2. Adjust the micro switch*
		Paper end	Ran out of paper	Set new label
		Sensor error	1. Sensor level is not accurate 2. Sensor type does not match 3. Label is meandering	1. Adjust the sensor level* 2. Adjust the sensor type 3. Reset the label

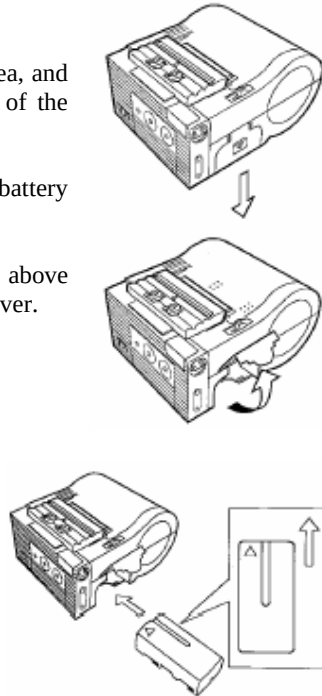


Item	Details
Interface Connector (RS232C)	For the connection to a computer
Interface Cover	Covers the interface connector
Front Cover	Open this for setting labels
Cover Open/Close lever	Opens and closes the front cover
IrDA Adjustment Lever	Changes the angle of the IrDA receiving element
IrDA Filter (2 filters)	Location of IrDA receiving element
Dispenser Unit	Shift this when using the Dispense mode
Power Switch	Slide to turn the power on/off
Battery Cover	Insertion of battery pack
Belt Hooks	Attaches the shoulder belt
Label Guide	Adjust this to the label size being used
Label Ejection	Collection point for printed labels
Label Width Scale	Scale for measuring the width of label used
DC Input Jack	Connection of the AC adapter
DC input Jack Cap	Covers the DC input jack
Feed Key	Press to feed labels
Print Key	Press to set the printer to On-line or Off-line
STATUS indicator (LED)	Indicates the status of the printer

Installing and Removing Battery Pack

Remove the protection case.

1. Place your finger on the battery cover ribbed area, and slide it as far as it will move in the direction of the arrow.
2. After releasing the battery cover lock, open the battery cover in the direction of the arrow.
3. Insert the battery pack. After that, take the above procedure in reverse order to close the battery cover.

**Changing Roll Width**

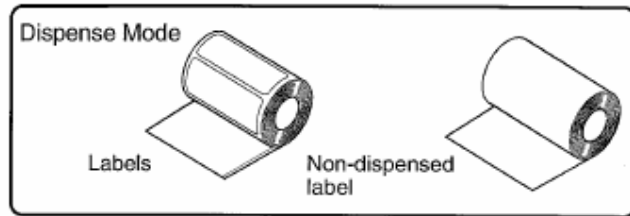
1. Check the width of the roll. Set the label guide scale to the width of the label, and slide until it overlaps.



2. Roll the label guide clockwise and secure it in position. When rolling, hold the place on the label guide indicated in the illustration nearby.



Perform Steps 1 and 2 when changing label rolls.



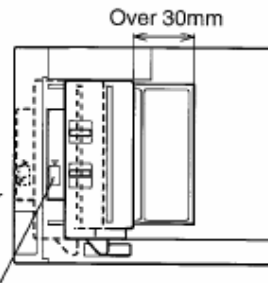
First perform the previous Steps 1 to 5. (Continuous Mode)

1. Pick the Dispense/Continuous switch lever from both sides, and slide the dispenser unit to the direction of the arrow.
Leave more than 30mm of the label out for the dispense mode.
Slide the dispenser unit until it is in place.
Always set the dispenser unit back to the Continuous mode when opening/closing the cover.



At the Continuous Mode (STD)

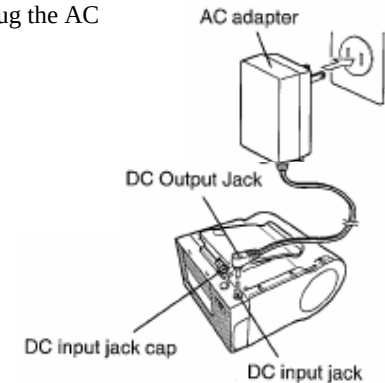
At the Dispense Mode (DSP)



Using the AC Adapter

Plug the specified AC adapter (optional) into the printer.

1. Take off the DC input jack cap and plug the AC adapter into the DC input jack.
2. Plug the AC adapter into the outlet.

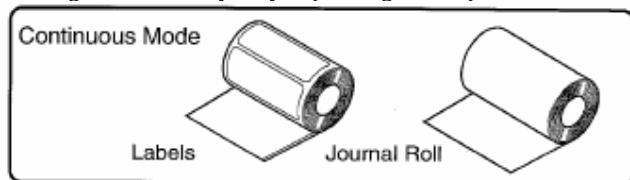


- * Always turn off the printer when unplugging the AC adapter or DC output jack, or when disconnecting the power source.
When turning off the printer, the status indicator lights up in green. Do not disconnect the power source while this light is on. Always make sure the green light is off when disconnecting the power supply.
- * When the power source is disconnected while the green light is on, the data in the printer memory may not be refreshed.

Media Loading

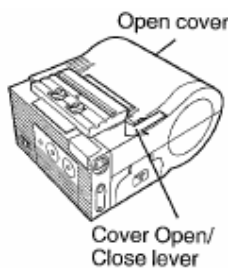
Setting Labels

The method of setting the labels may vary depending on the print mode.



Remove the protection case.

1. Place your fingers on the open cover ribbed area, and slide the cover Open/Close lever in the direction of the arrow.
2. When the open cover pops open, fully open the cover in the direction of the arrow.
3. Place the label roll on the spindle on the open cover side. When inserting the label roll, make sure to press down the label core to prevent the labels from raveling out. When removing remaining labels, insert your finger in the label core and remove the label with the core to prevent the labels from raveling out.



4. After peeling the leading tape on the roll, take the leading edge of the first label of the roll and pull it out from the label ejection via the platen roller. Adjust the label guide (left) to the label size, and pass the label underneath the label guides.
5. Place your fingers on the open cover ribbed area and close the open cover.



This completes the setting of the labels when using the Continuous mode.

